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| **Evaluation/Monitoring Plan****Measurement Methods** | Goat health monitored before and after browse rotations using:* Famacha tests (for worms)
* Weight

Vegetation sampled before and after browse treatments using nested quadrats in a stratified random design to determine:* Shrub/sapling density & cover
* Herb presence/absence & cover
* Litter depth after treatments

All trees measured for DBH & mappedSoil compaction evaluated for each paddock after treatmentsGoat follows performed to determine composition of diet throughout both rotations |
| **Inputs** | Goats* Herd of ~80 goats
* Fencing

Time for:* Goat management and maintenance
* Vegetation sampling

Equipment for:* Clearing and maintaining fence lines
 |
| **Activities** | Study of rotational goat grazing* Five replicate blocks containing
* Three treatments: light and heavy browse and a control

Study of interseeding* Treatment paddocks split with one half randomly chosen for interseeding
 |
| **Outputs** | A masters thesis on the impacts of a second year of rotational grazing on vegetation and goat healthOne or more field days hosted for local livestock producers and land managers One or more peer-reviewed journal articlesPresentation of results in livestock producer and/or land manage-ment conferences |
| **Expected Outcomes** | **Short Term:**Private landowners and livestock producers as well as land managers learn both production and conservation benefits of rotation grazing in overgrown open oak systems**Intermediate:**Goat producers and land managers collaborate independently on small scale projects to improve ecological quality & increase productive grazing land**Long Term:** Larger scale, multi-year partnerships between goat producers and land managers |